

(b) a solubilizing compound comprising a guanidinium group, wherein said solubilizing compound is present in said composition in an amount sufficient to make said IGF-I soluble at a concentration of at least about 12 mg/ml when said composition is at a temperature of about 4°C.

~~86.~~²² The composition of claim ~~85~~²¹, wherein said solubilizing compound is guanidine hydrochloride.

~~87.~~²³ The composition of claim ~~85~~²¹, wherein said solubilizing compound is arginine.

~~88.~~²⁴ The composition of claim ~~87~~²³, wherein said arginine is present in a molar concentration range from about 10 mM to about 1 M.

~~89.~~²⁵ The composition of claim ~~88~~²⁴, wherein said arginine is present in a molar concentration range from about 15 mM to about 500 mM.

~~90.~~²⁶ The composition of claim ~~89~~²⁵, wherein said arginine is present in a molar concentration range from about 20 mM to about 200 mM.

~~91.~~²⁷ The composition of claim ~~87~~²³, wherein said pH is in a range from about pH 5.5 to about pH 9.0.

~~92.~~²⁸ The composition of claim ~~91~~²⁷, wherein said pH is in a range from about pH 5.7 to about pH 6.3.

~~93.~~²⁹ The composition of claim ~~92~~²⁸, wherein said pH is about pH 6.0.

4/65 ³⁰
~~94.~~ The composition of claim ~~87~~²³, wherein said IGF-I is present in said composition at a concentration of about 12 mg/ml to about 200 mg/ml.

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~~95.~~ The composition of claim ~~94~~³⁰, wherein said IGF-I is present in said composition at a concentration of about 15 mg/ml to about 200 mg/ml.

³²
~~96.~~ The composition of claim ~~95~~³¹, wherein said IGF-I is present in said composition at a concentration of about 25 mg/ml to about 200 mg/ml.

C1 ³³
~~97.~~ The composition of claim ~~85~~²¹, wherein said composition comprises sodium chloride at a molar concentration of about 150 mM.

³⁴
~~98.~~ The composition of claim ~~85~~²¹ comprising a buffer selected from the group consisting of a glutaric acid buffer, a maleic acid buffer, a succinic acid buffer, a citric acid buffer, imidazole, and a histidine buffer.

SUB
F5 ³⁵
99. A composition comprising:
(a) biologically active human insulin-like growth factor-1 (IGF-I), wherein said IGF-I is present at a concentration of at least about 12 mg/ml when said composition is at a temperature of about 4°C;
(b) a solubilizing compound selected from the group consisting of arginine and guanidine hydrochloride; and
(c) a buffer such that the composition has a pH of about pH 5.5 to about pH 9.0.

³⁶
~~100.~~ The composition of claim ~~99~~³⁵, further comprising sodium chloride at a molar concentration of about 150 mM.

Sub
E6
101. A composition having a pH of at least about pH 5.5, wherein said composition comprises:

- (a) biologically active human insulin-like growth factor-1 (IGF-I), wherein said IGF-I is present at a concentration of at least about 12 mg/ml when said composition is at a temperature of about 4°C; and
- (b) arginine in an amount sufficient to make said IGF-I soluble at a concentration of at least about 12 mg/ml when said composition is at a temperature of about 4°C.

C1
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102. The composition of claim 101, wherein said arginine is present in a molar concentration range from about 10 mM to about 1 M.

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103. The composition of claim 102, wherein said arginine is present in a molar concentration range from about 15 mM to about 500 mM.

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104. The composition of claim 103, wherein said arginine is present in a molar concentration range from about 20 mM to about 200 mM.

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105. The composition of claim 101, wherein said pH is in a range from about pH 5.5 to about pH 9.0.

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106. The composition of claim 105, wherein said pH is in a range from about pH 5.7 to about pH 6.3.

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107. The composition of claim 106, wherein said pH is about pH 6.0.

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108. The composition of claim 101, wherein said IGF-I is present in said composition at a concentration of about 12 mg/ml to about 200 mg/ml.